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Publication Year	1997	1992	1992	6661	8661	1994
Volume No	16		256	∞	17	237
Journal Name	ЕМВО Ј	Science	Science	Protein Sci.	ЕМВО Ј	J Mol Biol
PubMed ID	9118960	1609277	1609277	10210178	<u>9501088</u>	8151703
First Page	686	1673	1673	S	1665	423
Authors	W.Somers, M.Stahl, J.S.Seehra	R.Powers, D.S.Garrett, C.J.March, E.A.Frieden, A.M.Gronenborn, G.M.Clore	R.Powers, D.S.Garrett, C.J.March, E.A.Frieden, A.M.Gronenborn, G.M.Clore	T.Kernebeck, S.Pflanz, G.Muller-Newen, G.Kurapkat, R.M.Scheek, K.Dijkstra, P.C.Heinrich, A.Wollmer, S.Grzesiek, J.Grotzinger	J.Bravo, D.Staunton, J.K.Heath, E.Y.Jones	T.Muller, T.Dieckmann, W.Sebald, H.Oschkinat
Title	HUMAN INTERLEUKIN-6	THREE-DIMENSIONAL SOLUTION STRUCTURE OF HUMAN INTERLEUKIN-4 BY MULTI-DIMENSIONAL HETERONUCLEAR MAGNETIC RESONANCE SPECTROSCOPY	THREE-DIMENSIONAL SOLUTION STRUCTURE OF HUMAN INTERLEUKIN-4 BY MULTI- DIMENSIONAL HETERONUCLEAR MAGNETIC RESONANCE SPECTROSCOPY	THIRD N-TERMINAL DOMAIN OF GP130, NMR, MINIMIZED AVERAGE STRUCTURE	CYTOK YNE-BINDING REGION OF GP130	ASPECTS OF RECEPTOR BINDING AND SIGNALLING OF INTERLEUKIN-4 INVESTIGATED BY SITE-
Experimental Technique	X-RAY DIFFRACTION	NMR	NMR	NMR, MINIMIZED AVERAGE STRUCTURE	X-RAY DIFFRACTION	NMR
PDB ID	<u>1ALU</u>	1BBN	1BCN	<u>1BJ8</u>	1BQU	ICYL

EXHIBIT D 10/082,815

	2000	2001	8661	6861	2001	1994	1997	1990
	61	57	S	209	291	370	27	29
	Embo J.	Acta Crystallogr., Sect.D	Nat Struct Biol	J Mol Biol	Science	Nature	Proteins	Biochemistry
	10899108	11526337	9699630	2585509	11251120	8035875	9141135	2184886
	3530	1334	682	977	2150	270	556	1689
	C.Yoon, S.C.Johnston, J.Tang, M.Stahl, J.F.Tobin, W.S.Somers	M.Hulsmeyer, C.Scheufler, M.K.Dreyer	P.Muhlhahn, M.Zweckstetter, J.Georgescu, C.Ciosto, C.Renner, M.Lanzendorfer, K.Lang, D.Ambrosius, M.Baier, R.Kurth, T.A.Holak	B.C.Finzel, L.L.Clancy, D.R.Holland, S.W.Muchmore, K.D.Watenpaugh, H.M.Einspahr	D.Chow, X.He, A.L.Snow, S.Rose- John, K.C.Garcia	K.P.Wilson, J.A.Black, J.A.Thomson, E.E.Kim, J.P.Griffith, M.A.Navia, M.A.Murcko, S.P.Chambers, R.A.Aldape, S.A.Raybuck, et al.	C.Eigenbrot, H.B.Lowman, L.Chee, D.R.Artis	G.M.Clore, E.Appella, M.Yamada, K.Matsushima,
DIRECTED MUTAGENESIS AND NMR SPECTROSCOPY	HUMAN INTERLEUKIN-12	INTERLEUKIN-4 MUTANT E9A	STRUCTURE OF INTERLEUKIN 16: IMPLICATIONS FOR FUNCTION, NMR, 20 STRUCTURES	CRYSTAL STRUCTURE OF RECOMBINANT HUMAN INTERLEUKIN-1BETA AT 2.0 ANGSTROMS RESOLUTION	CYTOKINE/RECEPTOR CYTOKINE/RECEPTOR COMPLEX	STRUCTURE AND MECHANISM OF INTERLEUKIN-1BETA CONVERTING ENZYME	INTERLEUKIN-8, MUTANT WITH GLU 38 REPLACED BY CYS AND CYS 50 REPLACED BY ALA	THREE-DIMENSIONAL STRUCTURE OF INTERLEUKIN 8 IN
	X-RAY DIFFRACTION	X-RAY DIFFRACTION	NMR, 20 STRUCTURES	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	NMR
	<u>1F45</u>	<u>IHZI</u>	1116	IIIB	IIIR	IICE	11CW	111.8

	1995	1995	1995	1997	1992	1994	9661	2001
	227	34	247	386	224	238	259	20
	Eur J Biochem	Biochemistry	J Mol Biol	Nature	J Mol Biol	J Mol Biol	J Mol Biol	Embo J.
	7867645	<u>7547951</u>	7723044	9062193	1569578	8145254	8676386	11574464
	838	12118	676	190	668	23	524	5332
A.M.Gronenborn	H.A.Schreuder, J.M.Rondeau, C.Tardif, A.Soffientini, E.Sarubbi, A.Akeson, T.L.Bowlin, S.Yanofsky, R.W.Barrett	M.R.Walter, T.L.Nagabhushan	H.R.Mott, B.S.Baines, R.M.Hall, R.M.Cooke, P.C.Driscoll, M.P.Weir, I.D.Campbell	G.P.Vigers, L.J.Anderson, P.Caffes, B.J.Brandhuber	L.J.Smith, C.Redfield, J.Boyd, G.M.Lawrence, R.G.Edwards, R.A.Smith, C.M.Dobson	C.Redfield, L.J.Smith, J.Boyd, G.M.Lawrence, R.G.Edwards, C.J.Gershater, R.A.Smith, C.M.Dobson	Y.Feng, B.K.Klein, C.A.McWherter	S.G.Hymowitz,
SOLUTION	CRYSTAL STRUCTURE OF THE INTERLEUKIN-1 RECEPTOR ANTAGONIST	CYTOKINE SYNTHESIS	THE SOLUTION STRUCTURE OF THE F42A MUTANT OF HUMAN INTERLEUKIN 2	TYPE-1 INTERLEUKIN-1 RECEPTOR COMPLEXED WITH INTERLEUKIN-1 BETA	HUMAN INTERLEUKIN 4: THE SOLUTION STRUCTURE OF A FOUR-HELIX-BUNDLE PROTEIN	ANALYSIS OF THE SOLUTION STRUCTURE OF HUMAN INTERLEUKIN 4 DETERMINED BY HETERONUCLEAR THREE- DIMENSIONAL NUCLEAR MAGNETIC RESONANCE TECHNIQUES	HUMAN INTERLEUKIN 3 (IL-3) MUTANT WITH TRUNCATION AT BOTH N-AND C-TERMINI AND 14 RESIDUE CHANGES, NMR, MINIMIZED AVERAGE STRUCTURE	CRYSTAL STRUCTURE OF
	X-RAY DIFFRACTION	X-RAY DIFFRACTION	NMR, MINIMIZED AVERAGE STRUCTURE	X-RAY DIFFRACTION	NMR	NMR	NMR, MINIMIZED AVERAGE STRUCTURE	X-RAY
	IILR	INR	IIRL	1ITB	III	<u>MTII</u>	1JLI	

	2001	2002	2003	2002	2003	2003
	86	49	59	66	42	278
	Proc.Nat.Acad.Sci.USA	Proteins: Struct.,Funct.,Genet.	Acta Crystallogr., Sect.D	Proc.Nat.Acad.Sci.USA	Biochemistry	J.Biol.Chem.
	11734640	n/a	n/a	<u>12093920</u>	n/a	n/a
	14250	543	290	9404	10938	3308
E.H.Filvaroff, J.P.Vim, J.Lee, L.Cai, P.Risser, M.Maruoka, W.Mao, J.Foster, R.F.Kelley, G.Pan, A.L.Gurney, A.M.De Vos, M.A.Starovasnik	M.Renatus, H.R.Stennicke, F.L.Scott, R.C.Liddington, G.S.Salvesen	P.P.Liu, Y.C.Chen, C.Li, Y.H.Hsieh, S.W.Chen, S.H.Chen, W.Y.Jeng, W.J.Chuang	M.G.Rudolph, M.S.Kelker, T.R.Schneider, T.O.Yeates, V.Oseroff, D.K.Heidary, P.A.Jennings, I.A.Wilson	B.C.Jones, N.J.Logsdon, K.Josephson, J.Cook, P.A.Barry, M.R.Walter	E.F.Dunn, N.J.Gay, A.F.Bristow, D.P.Gearing, L.A.O'Neill, X.Y.Pei	C.Chang, E.Magracheva, S.Kozlov, S.Fong, G.Tobin, S.Kotenko, A.Wlodawer, A.Zdanov
IL-17F	STRUCTURE OF CLEAVED, CARD DOMAIN DELETED CASPASE-9	SOLUTION STRUCTURE OF THE DNA-BINDING DOMAIN OF INTERLEUKIN ENHANCER BINDING FACTOR	CRYSTAL STRUCTURE OF INTERLEUKIN 1-BETA F42W/W120F MUTANT	CRYSTAL STRUCTURE OF HUMAN CYTOMEGALOVIRUS IL-10 BOUND TO SOLUBLE HUMAN IL-10R1	HIGH RESOLUTION CRYSTAL STRUCTURE OF MURINE IL-1F5 REVEALS UNIQUE LOOP CONFORMATION FOR SPECIFICITY	CRYSTAL STRUCTURE OF HUMAN INTERLEUKIN-19
DIFFRACTION	X-RAY DIFFRACTION	NMR, 20 STRUCTURES	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION
<u>1.PY</u>	1,1,10	1JXS	<u>11.2H</u>	1LQS	<u>1MD6</u>	INIE

1995	2002	2003	2003	2003	2003	1996	2003
270	299	11	11		300	3	12
J Biol Chem	Biochem.Biophys.Res.Comm.	Structure	Structure	Structure	Science	Nat Struct Biol	Mol. Cell
7706245	n/a	n/a	n/a	n/a	n/a	<u>8673606</u>	n/a
7077	216	845	845	845	2101	619	577
M.G.Malkowski, J.Y.Wu, J.B.Lazar, P.H.Johnson, B.F.Edwards	X.Tao, Y.Xu, Y.Zheng, A.Beg, L.Tong	B.S.Kang, D.R.Cooper, Y.Devedjiev, U.Derewenda, Z.S.Derewenda	B.S.Kang, D.R.Cooper, Y.Devedjiev, U.Derewenda, Z.S.Derewenda	B.S.Kang, D.R.Cooper, Y.Devedjiev, U.Derewenda, Z.S.Derewenda	M.J.Boulanger, D.C.Chow, E.E.Brevnova, K.C.Garcia	J.Rotonda, D.W.Nicholson, K.M.Fazil, M.Gallant, Y.Gareau, M.Labelle, E.P.Peterson, D.M.Rasper, R.Ruel, J.P.Vaillancourt, N.A.Thornberry, J.W.Becker	M.J.Boulanger, A.J.Bankovich, T.Kortemme, D.Baker, K.C.Garcia
THE CRYSTAL STRUCTURE OF RECOMBINANT HUMAN NEUTROPHIL-ACTIVATING PEPTIDE-2 (M6L) AT 1.9- ANGSTROMS RESOLUTION	CRYSTAL STRUCTURE OF THE C713S MUTANT OF THE TIR DOMAIN OF HUMAN TLR2	CRYSTAL STRUCTURE OF THE COMPLEX OF PDZ2 OF SYNTENIN WITH AN INTERLEUKIN 5 RECEPTOR ALPHA PEPTIDE.	CRYSTAL STRUCTURE OF THE COMPLEX OF PDZ2 OF SYNTENIN WITH A SYNDECAN-4 PEPTIDE.	CRYSTAL STRUCTURE OF THE COMPLEX OF THE PDZ TANDEM OF SYNTENIN WITH AN INTERLEUKIN S RECEPTOR ALPHA PEPTIDE.	CRYSTAL STRUCTURE OF THE HEXAMERIC HUMAN IL-6/IL-6 ALPHA RECEPTOR/GP130 COMPLEX	CRYSTAL STRUCTURE OF THE COMPLEX OF APOPAIN WITH THE TETRAPEPTIDE ALDEHYDE INHIBITOR ACDEVD-CHO	CRYSTAL STRUCTURE OF LEUKEMIA INHIBITORY FACTOR IN COMPLEX WITH GP130
X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION
INAP	1077	10BX	10BY	10BZ	IP9M	<u>IPAU</u>	1PVH

2003	2003	1999	1992	1996	1997	1994	1661	1989
125	125	7	309	235	266	237	88	98
J.Am.Chem.Soc.	J.Am.Chem.Soc.	Structure (London)	FEBS Lett	Eur J Biochem	J Mol Biol	J Mol Biol	Proc Natl Acad Sci U S A	Proc Natl Acad Sci U S A
n/a	n/a	10508784	1511746	8631339	9047370	<u>8151703</u>	1849658	2602367
15280	15280	1125	59	26	367	423	3446	2996
C.D.Thanos, M.Randal, J.A.Wells	C.D.Thanos, M.Randal, J.A.Wells	H.Blanchard, L.Kodandapani, P.R.E.Mittl, S.Di Marco, J.K.Krebs, J.C.Wu, K.J.Tomaselli, M.G.Grutter	A.Wlodaver, A.Pavlovsky, A.Gustchina	H.Sticht, M.Auer, B.Schmitt, J.Besemer, M.Horcher, T.Kirsch, I.J.Lindley, P.Rosch	M.G.Malkowski, J.B.Lazar, P.H.Johnson, B.F.Edwards	T.Muller, T.Dieckmann, W.Sebald, H.Oschkinat	J.D.Zhang, L.S.Cousens, P.J.Barr, S.R.Sprang	J.P.Priestle, H.P.Schar,
LOW MICROMOLAR SMALL C.D.Thanos, M.Randal, 15280 MOLECULE INHIBITOR OF I.A.Wells LL-2	STRUCTURE OF A 60 NM SMALL MOLECULE BOUND TO A HOT SPOT ON IL-2	CRYSTAL STRUCTURE OF THE COMPLEX OF CASPASE-8 WITH THE TRIPEPTIDE KETONE INHIBITOR ZEVD-DCBMK	CRYSTAL STRUCTURE OF HUMAN RECOMBINANT INTERLEUKIN-4 AT 2.25 ANGSTROMS RESOLUTION	CHIMERIC PROTEIN OF INTERLEUKIN 8 AND HUMAN MELANOMA GROWTH STIMULATING ACTIVITY PROTEIN, NMR	NEUTROPHIL ACTIVATING PEPTIDE-2 VARIANT FORM MGL WITH FIVE ADDITTONAL AMINO TERMINAL RESIDUES (DSDLY)	ASPECTS OF RECEPTOR BINDING AND SIGNALLING OF INTERLEUKIN-4 INVESTIGATED BY SITE- DIRECTED MUTAGENESIS AND NMR SPECTROSCOPY	THREE-DIMENSIONAL STRUCTURE OF HUMAN BASIC FIBROBLAST GROWTH FACTOR, A STRUCTURAL HOMOLOG OF INTERLEUKIN IBETA	CRYSTALLOGRAPHIC
X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	NMR, 8 STRUCTURES	X-RAY DIFFRACTION	NMR	X-RAY DIFFRACTION	X-RAY
1PW6	<u>1PY2</u>	<u>1QDU</u>	IRCB	IROD	ITVX	2CYK	2FGF	

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	1990	0661	1661	1992	1992	n/a	1661
	29	29	88	257	12	n/a	30
	Biochemistry	Biochemistry	Proc Natl Acad Sci U S A	Science	Proteins	To be Published	Biochemistry
	2184886	2346741	1988949	n/a	1553379	n/a	2001363
	1689	2679	502	412	10	n/a	2315
M.G.Grutter	G.M.Clore, E.Appella, M.Yamada, K.Matsushima, A.M.Gronenborn	B.J.Graves, M.H.Hatada, W.A.Hendrickson, J.K.Miller, V.S.Madison, Y.Satow	E.T.Baldwin, I.T.Weber, R.St Charles, J.C.Xuan, E.Appella, M.Yamada, K.Matsushima, B.F.Edwards, G.M.Clore,	D.B.Mckay	B.Veerapandian, G.L.Gilliland, R.Raag, A.L.Svensson, Y.Masui, Y.Hirai, T.L.Poulos	D.H.Ohlendorf, A.C.Treharne, P.C.Weber, J.J.Wendoloski, F.R.Salemme, M.Lischwe, R.C.Newton	G.M.Clore, P.T.Wingfield, A.M.Gronenborn
REFINEMENT OF INTERLEUKIN-IBETA AT 2.0 ANGSTROMS RESOLUTION	THREE-DIMENSIONAL STRUCTURE OF NTERLEUKIN 8 IN SOLUTION	STRUCTURE OF INTERLEUKIN 1ALPHA AT 2.7-ANGSTROMS RESOLUTION	CRYSTAL STRUCTURE OF INTERLEUKIN 8: SYMBIOSIS OF /NMR AND CRYSTALLOGRAPHY	UNRAVELING THE STRUCTURE OF INTERLEUKIN-2: REPLY	FUNCTIONAL IMPLICATIONS OF INTERLEUKIN-1BETA BASED ON THE THREE- DIMENSIONAL STRUCTURE	A COMPARISON OF THE HIGH RESOLUTION STRUCTURES OF HUMAN AND MURINE INTERLEUKIN-1B	HIGH-RESOLUTION THREE- DIMENSIONAL STRUCTURE OF INTERLEUKIN 1BETA IN SOLUTION BY THREE-AND FOUR-DIMENSIONAL
DIFFRACTION	NMR	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	X-RAY DIFFRACTION	NMR
<u>211B</u>	21 <u>L8</u>	<u>21LA</u>	311.8	3INK	411B	<u>511B</u>	<u>611B</u>

	1661	п/а	6661
	30	n/a	96
	Biochemistry	To be Published	Proc Natl Acad Sci U S A
	2001363	n/a	9874779
	2315	n/a	103
	G.M.Clore, P.T.Wingfield, A.M.Gronenborn	D.H.Ohlendorf, A.C.Treharne, P.C.Weber, J.J.Wendoloski, F.R.Salemme	B.Yu, M.Blaber, A.M.Gronenborn, G.M.Clore, D.L.Caspar
NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY	HIGH-RESOLUTION THREE- DIMENSIONAL STRUCTURE OF INTERLEUKIN IBETA IN SOLUTION BY THREE-AND FOUR-DIMENSIONAL NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY	A COMPARISON OF THE HIGH RESOLUTION STRUCTURES OF HUMAN AND MURINE INTERLEUKIN-1B	HUMAN INTERLEUKIN-1 BETA
	NMR	X-RAY DIFFRACTION	X-RAY DIFFRACTION
	<u>711B</u>	811B	<u>9ILB</u>

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